



US006263879B1

(12) **United States Patent**
Lin

(10) Patent No.: **US 6,263,879 B1**
(45) Date of Patent: **Jul. 24, 2001**

(54) **TREATMENT OF PRESBYOPIA AND OTHER EYE DISORDERS USING A SCANNING LASER SYSTEM**

5,490,849 * 2/1996 Smith 606/5
5,533,997 * 7/1996 Ruiz 606/5

(76) Inventor: **J. T. Lin**, 730 Willow Run La., Winter Springs, FL (US) 32708

* cited by examiner

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

Primary Examiner—Dinh X. Nguyen
(74) Attorney, Agent, or Firm—William M. Hobby, III

(21) Appl. No.: **09/189,609**

(57) **ABSTRACT**

(22) Filed: **Nov. 10, 1998**

(51) Int. Cl.⁷ **A61B 19/00**

(52) U.S. Cl. **128/898; 606/4; 606/5; 606/10; 606/11; 607/89**

(58) Field of Search **128/898; 606/3, 606/4, 5, 10, 11, 17, 107; 607/89**

Presbyopia is treated by a method which uses ablative lasers to ablate the sclera tissue and increase the accommodation of the ciliary body. Tissue bleeding is prevented by an ablative laser having a wavelength of between 0.15 and 3.2 micron. A scanning system is proposed to perform various patterns on the sclera area of the cornea to treat presbyopia and to prevent other eye disorder such as glaucoma. Laser parameters are determined for accurate sclera expansion.

(56) **References Cited**

U.S. PATENT DOCUMENTS

4,907,586 * 3/1990 Bille et al. 606/5

13 Claims, 3 Drawing Sheets

